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PETER H

GEO

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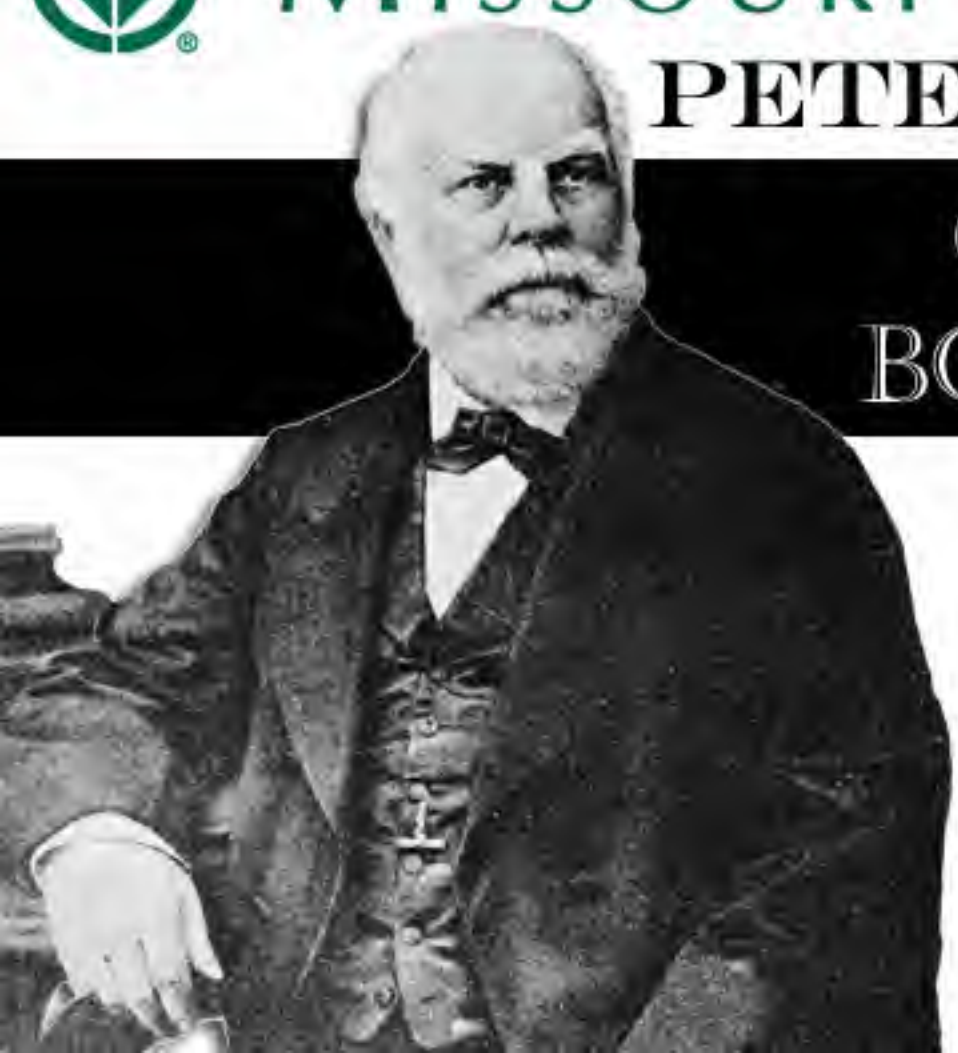

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Dorothea Swallaciae

Perrot, 27

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Notes and Sketches.
Engelmann.

XXXVI.

Arceuthobium.

The volumes are all to be
lettered in uniform lettering.

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[This folder enclosed all Arcuatobium notes]

Arceuthobium, Marshal a Bieb
Flor Taur- caucas.
III p. 629 (1819)
(Cirsae pro tensum)

Hook flor Lor. Am I. 278 & tab. 99

End. Gen p. 800 № 4583

Decaisne, Toxite (1868) p. 471. & t.

Eichler in Flor. Brasil fascic. 44. p. t.

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see Englm. in N. Act Caesar. p. 58-59
(Mem. Am. Acad. 1849.)

// Englm. in N. Linnaea. II (1850) p. 212-215
(Bot Journ. Nat. Hist vol VI

// Oliver in Journ. Proced. Lin. Soc.
(Bot) vol VII. p. 90-105. 1863
p. 93. & 104)

(ignores any publication of N. List

(Spirospermum Karst. Fl. Colomb. 73. t. 36 is according to Oliver identical with Spirospermum Engelm, notwithstanding Karstens protest

(Oliver in Nat For Vid. Medd. Copenhag. 1864
(Libonia's Abarth.) p. 170

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Eichler says that in Lomatia the base of the trunk makes normally accessory buds

Solms thinks that "pneotoxy" adventitious buds may be formed see also Solms.

I find this to replace normal conditions of Arrentes Gien !! In a position to stolons (which contain stony vessels grouped in parenchyma cells, much smaller than the surrounding bark cells) Bark through the epidermis every where. In St. annua only between the buds scales at the end of the V. Growth. —

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Arcanthobium M Dieb. A. W. Eichler in Lorantharc. Flor Brasil fas 44. p. 105 adnot. pec. 1868

Flores dioici, ♂ 3-4 (-5)-meri, ♀ 2-meri

mascr. Stamina petalis adnata, antherae in medio petalorum sessiles, loculis confluentibus subcamiloculares, rima unica transversa dehiscentes. Ovarium obsoletum discus carnosus

Fem. Ovarium subcompressum-oviideum, perigonium breve discus subnullus, stylus conicus, stigma obtusum.

Inflor. "aphylli", axillaris in vaginas bidentatas connati, prophyllis ramorum nullis. Flores gemmae axillares et terminales (subinde in ramulis abbreviatis) solitarii, positione petalorum in 3 meri $\frac{2}{1}$ in 4 meris lateralis, in 4 meris $\frac{1}{1}$.

1. A. Oxycedri Bieb. Cauc. auct. orient. Asia temperata Armenia, boreali.

2. A. Americanum Nutt. Oregon (Hall & Harbour 574

3. A. vaginatum Eichl. (Viscum vaginatum H.B.K. 284 A. cryptopodium Engelm.) Mexico, Humboldt Liebman, Andrieux 348 Müller 520, Texas, Lindheimer 214

4. A. campylopodium Engelm Mexico. et regiones in Septentrione conterminatae, etiam California. Andrieux 349 Kamonski, Ehrenberg, Liebman, Hartweg 1764 ♂ Douglas ♀

Tab 31 series III. Inflorescentia Arcanthobii.

fig 1. A. vaginatum ♂ ramulus floriferus. fl. simpliciter axillares et terminales

fig 2 A. Oxycedri ♂ ramus bifloras, floribus ad ramulos peculiares decurtatos terminalibus

fig 3 flos axillaris ex ramulo fig 1. cum gemma accessoria infera

fig 4 diagramma floris gemmacei fig 3

fig 5 diagramma ramuli in fig 1

fig 6 A. campylopodium ♀ ramulus floriferus. Flores ut in masculis simpliciter axillares et terminales

fig 7 diagramma hujus ramuli

Nothing said about the fruit, no fruits figured

Eaton

7245

p. 108 in contexta: Arenthobium nunquam spicas, sed flores solitarios terminales et axillares habet. Flores porro in ipsa poli scapuloriantes axilla stant; neque unquam supra eam (ut in Dendrophthora et Phoradendro), duaque petala eorum in 3 meris positione ♂ in tetrameris directe oppositis, in dimeris (Gemiacis) autem lateralia gerunt. (⊕ ⊗ ◐) itaque omnino inversa ac in Dendrophthora ceraa venit.

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Arenthobi- Hook H. A Ste. I. 277 (1699)

--- Semen prope vise de immersum, summo loculo affixum, pendens basi accumbentem --- Embryo immersus versus basin albuminis

[ seed evidently reversed ! ]

Arenthobi- Del. Ic. gen. 45 & 3 p. 800 ... ovulo unico pendulo, ---

basi ~~retorta~~ reflexa --- semen inversum ---

Embryo in apice albuminis rectus — radicula supera.

Korthalsia Lagerh. Ovulum unicum ex apice pendulum

--- semen inversum --- embryo inversus -- radicula supera

— Schnizlein Icon. ovulum unicum erectum atropum

--- radicula supera apice exserta

— Decaisne ovula unica erecta dense orthotropa

— Eichler in Flor Bras fasc 44 (1868)

ovulo unico axili atropo basilari erecto integumentis penato, raphe ventrali connato &c

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ALEX. LEITCH,
APOTHECARY & PHARMACEUTIST,
Marble Building Cor. Fourth & Olive Sts. St. Louis, Mo.

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~~fruit a compressed berry.~~

## Arceuthobium M. Bieb. Flor Taur. Cauc. III. p. 629

Dioecious. Male flowers 2–5– (mostly 3–) parted; anthers adnate to the middle of the fleshy triangular ovallate lobes of the calyx petals, one celled (opening with a circular hole or transverse slit) with one opening; pollen grains spinulose.

Female flowers with an ovoid inferior ovary; perianth 2(3) parted, with a single erect lobed, stigma conic or oval stigma

+ Shrubs small yellowish or greenish brown shrubs articulate parasites on Coniferae

leaves opposite reduced to small connate scales —

stomata on back of leaves (2 rows) only or also on stem.

~~A. Americanum Nutt in Torr & Gray Fl. I.~~

+ ~~Berry compressed~~

~~Compare Fruit opening at base~~

Fruit an erect ovoid pedicle, opening at base, at apex said

A. Americanum ~~Nutt~~ in Hook. Engelm in ~~A. Gray~~ Bost. Journ. Nat. 6. 214

~~Stems slender~~ slender much branched greenish yellow; flowers often verticillate male flowers clustered always terminal on short branchlets, crowded, rarely axillary ~~fruit~~ berry 1/2 lin. long

~~always~~ On Pinus contorta Colorado Northward & westward ~~(rarely to Oregon & Calif.~~ delicate parasite branched plants, 1 or 2 to 3 inches high, flowering ~~May & Sept~~ & maturing its fruit in 12–13 months.

A. robustum Engelm in Rev. Wheeler Arnott. A cryptopodum Engelm in Bost Journ l.c. Stems stout, branched, olive or brownish green, flowers apparently single, spiked, with a terminal one; berry 2 1/4 lin. long.

~~always~~ On Pinus ponderosa, Colorado Southward & westward; ~~rarely~~ flowering in June, maturing its fruit in 15 or 16 months. — Stouter & darker colored than the last, & flowers & fruit much larger,

3–4 inches high

Opuntia basilaris ½ pint dry " with a deep hemispherical umbilicus ; seeds unripe 2.5–2.8 m/m diam, very thick, 1.6–2.0 m/m thick, with a rather broad but scarcely prominent rim, resembling the seeds of Opuntia fulgida, seeds empty.

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Arcuthobium

On Juniperus Oxy. Europe Asia Syria ♂ ♀ fr
On Juniperus Calif. No 2055 ♂ ♀ fr
On ~~Libocedrus~~ ~~Sheffield Bank Col. Bigelow (1854)~~ is Thuiopsis!

On P. ponderosa Sonora Col. Bigelow (1854) ♀ fl.
Lewis Spruce Bigelow. (1853) ♂ ♀ fl.
~~Colorado Parry (1861)~~
Oregon Geyer. (1843) ♀ fr
Colorado Parry (1861) ♂
Oregon
Herb Hooker. (Douglas ?) ♀ fr.
Fendler № 283. (1847) ♂ ♀ fl
Bolander, 6380 ♀

On P. contorta Hall & Harbour № 574 Colorado (1862) ♀ fr
& Parry, Middle Park (1862) ♂ ♀ fr
Spokan to Rocky Mts on P. Banksiana ♀ Drummond
Bolander no 5095 ♂ ♀
On P. insignis Hartweg № 1764 (1846) ♂
Douglas (1833) ♀ fr
& Parry " 1850. ♀ fl
Brewer 700 ♂ ♀
Brewer 582 ♂ ♀

On P. Sabiniana ? Bigelow Sonora California 1854
Bolander ~~582~~ 2671 ♂
On P. edulis Fendler N Mexico № 282 (1847) ♂ ♀ fl

On Abies amara Rensselaer Co N.Y. Chs. Hy Peck (1871 Sept) ♂ ♀
On Abies grandis Oregon Hall
On A concolor Utah Parry
On A. Douglasii " Parry

No nursetree mentioned
A. Amabilis Oregon Nuttall ♂ 1834
Lewis " Mexico Seemann ♂
" Andrieux ♀
Hort Linden Turk
" Carter ♀ fr

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10 Rocky Mountain specimens of Arceuthobium in my Herb.

574. Hall & Harbour, Colorado 1862, on P. contorta
& Parry, in Middle Park 1862 on P. contorta } Colorado
Spokan to Rocky Mountains & on P. Banksiana Drummond.
Oregon Nuttall 1834

282 Fendler N Mex. on P. edulis – (A cæspitosa macrathera gracilis.)

577 Geyer, Rocky Mts on P. ponderosa
& Parry 1861 & on P. ponderosa Colorado

? on P. ponderosa. (no locality nor Collector) in H Hooker (Drummond, Douglas?)
on P. ponderosa & Nigelow. Dec 17. 1853, (number 2. 6.)
Lewis Spring Dec 17. 1853.

283 on P. ponderosa Fendler. N Mex – (P. cryptandra)

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Arcuthobium  Calif. State Survey

700. cryptt A. insignis ♂♀ Monterey June 7 '61
582 cryptt A. Sabiniana ♀ Salinas Valley May
2671 campylop A. Sabinianum ♂ Lake County
2055 campylop A. Jamesianum ♂♀ S. Cruz Mountains Aug 6
6280 cryptop A. pusillum ♂♀ Yosemite Valley
5095 americ A. Douglasii ♂♀ Little Yosemite Valley

A. cryptopodum 700 ♂♀
6280 ♀
582 ♀

Campylopodum. 2055 ♂♀
2671 ♂

Americanum 5095

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# Leitch & Corlies

## DRUGGISTS

South West Corner Fifth and Market Streets.

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1851

7 Californian species of Arceuthobium in my Herb.

(Or Liboredrus, Duffield's Ranch, May 10 1854 & Bigelow) = Phoradendron!

Or P. vestigiata Monterey & Parry 1850

" " ? " " Hartweg N 1764 ex Hk Hook

Or Pinus. Douglas California 1833 (1832?)

P. ponderosa, Sonora, Calif. & Bigelow May 9 1854 (mihi N 4)

" " " " " " (" N 2 a)

(or P. ponderosa no Collector, no Locality, in Hk Hook.

or P. Sabiniana? Bigelow, Sonora, Calif. May 9 1854 (mihi 2)

(or P. ponderosa Bigelow, Lerroux Springs Dec 17 1853 (mihi 26)

Coulter was in California 1832 same time with Douglas, when he must be Monterey

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60
1 10
25
25
60
60
25
1 25
490

Rocky Mt. [illegible]

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